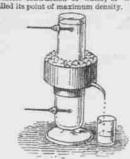
The Author of "Home, Sweet Home"-"There Is a Happy Land' -Antiquity of Electricity-London Parks.

Water presents the phenomenon that when its temperature sinks it contracts up to 4 degs; but from that point, although the cooling continue, it expands up to the freezing point, so that 4 degs, respressnts the point of greatest contraction of water, or what is called its point of maximum density.



THE MAXIMUM DENSITY OF WATER.

Hope used the following method to dotermine the maximum density of water. He took a deep vessel perforated by two lateral apertures, in which he fixed thermometers see cut), and having filled the vessel with water at 0 deg., he placed it in a room at a temperature of 15 degs. As the layers of liquid at the sinks of the vessel became heated they sank to the bottom, and the lower thermometer marked 4 degs, while that of the upper doe was still at zero. Hope then made the inverse experiment; having filled the vessel with water at 15 degs, he placed it in a room at zero. The lower thermometer, having sunk to 4 degs, remained stationary for some time, while the upper one cooled down until it reached zero. Both these experiments prove that water is leavier at 4 degs, than at 0 degs, for in both cases it sinks to the lower part of the vessel. This experiment may be adapted for lecture illustration by using a cylinder containing water of 15 degs. C. partially surrounded by a judget containing cracked ice, as shown in the cut.

This phenomenon is of great importance in the contour with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being in contact with the cold air, and from being as a temperature of 4 degs. The cooled layers, being lighter, remain on the surface and ultimately freeze. The loo THE MAXIMUM DENSITY OF WATER

cooling on the surface stall continues, but the cooled layers, being lighter, remain on the surface and ultimately freeze. The ico formed thus protects the water below, which, remains at a temperature of 4 degs., even in the most severe winters, a temperature at which fish and other inhabitants of the water are not destroyed.

Why Sixty Seconds Make a Minute.

Why is our hour divided into sixty minutes, each minute into sixty accords, etc.! Simply and solely, reptise Max Muller in Portnightly Review, because in Bahylon there existed by the side of the decimal system of notation another system, the scangesimal, which counted by sixties. Why that number should have been chosen is clear enough, and it speaks well for the practical sense of those nuclear Babylonian merchants. There is no number which has so many divisors as 60. The Bahylonians divided the san's daily journey into 28 parasangs, or 720 stadia. Each parasang or hour was subdivided into 60 minutes. A parasang is about a German mile, and Babylonian astronomere compared the progress made by the squince to the progress made by a good waker during the same time, both accomplishing one parasang. The whole course of the sun during the 48 equinoctial hours was fixed at 24 parasang. Why Sixty Seconds Make a Minute.

the same time, both accomplishing one parasing. The whole course of the sun during
the 34 equipoctial hours was fixed at 24 parasangs, of 720 stadia, or 300 degrees.
This system was handed on to the Greeks,
and Hipparchus, the great Greek philosopher,
who lived about 150 B. C., introduced the
Babyle an hour into Europe. Ptolemy, who
wrote, out 140 A. D., and whose name still
lives in that of the Ptolemaic system of
hatronomy, gave still wider currency to the
Babylonian way of reckning time. It was
carried along on the quiet strain of traditional
knowledge through the Middle Ages, and,
strange to say, it sailed down asfely over the
Nikana and case, and subjecting all to the
decimal system of reckning, were induced
by some unsayialned motive to respect our
clocks and watches, and subjecting all to the
decimal system of reckning, were induced
by some unsayialned motive to respect our
clocks and watches, and allowed our disk to
remain swapesimal, that is, Babylonian, each remain sexagesimal, that is, Babylonian, each bour consisting of sixty minutes.

Lighting Trains by Electricity.

The experiments now being conducted on the trains of the Milwanice and St. Paul railroad, according to Popular Science News, give substantial evidence that, electric lightlectively or separately, as occasion requires. The storing is coupled directly to the dynamo. lectively or separately as occusion restarce. The segme is coupled directly to the dynamo, and drives the armature at a speed of 500 revolutions a minute. When the locomotive is detached from the train, the storage batteries are inought into service and the lights are unaffected. Any car or cars may be separated from the train without interfering with the light of either the train or the detached cars, as the storage batteries amply supply all the image. By means of switches the end of each car, the inarps in the middle, at either end, or on either side of the zer may be cut out of directly without affecting the remainder. The couplings between as may be cut out of circuit without affect lag the remainder. The couplings between cars are made with cables placed over the floors and under the projecting roofs. The symmon, engine, switches and resistance noils occupy an apartment about five feet wide in one end of a baggage car, and a stor-age battery of thirty-two cells is placed un-sider each car.

How a High Chimney Was Overthrown The simple and successful plan by which a high chimner was recently overthrown at New Beilford, Mass, is thus described: The chimner, which was 100 foce by 90 feet square, was undermined by knocking out the bricks on the west and north sides, and shored up-ther relative thosel for the aperture. These so the west and north sides, and shored up by plants placed in the aperture. These plants were literally covered with tar and kerosum. When the time arrived for felling the chimney, they were fired. As they became sufficiently barned to cease to support the chimney, the mass settled out of the perpendicular to the north, and then cracked and fell with a crash to the ground.

Allens Springs, Ill., who is over sixty years of acc, says: "I have in my time tried a great many medicines, some of excellent quality, but never before did I find any that would so completely do all that is claimed for it as Chamberlain's Colic, the crash to the ground.

Cholera and Diarrhosa Remedy. It is truly a wonderful medicine. For saic by Z. C. M. I Drug Department.

The Chevalier Gaudet, who, driven penni-less from France at the time of the outbreak of the first revolution, made a fortune in London by preparing schales at ten guineas e, always approached the sacred leading dress costome, with his several by his

ALL AROUND THE HOUSE. New and Taking Articles That Adorn Par-

Quite novel are "tea cup" brackets. These are intended to be hung sufficiently low on the wall for cups to be placed on the shall provided. They are rather long and oblong in form; at the top is a shelf for ornaments, with a railed sdam; inst below this is a name. and Boudeir.

OUR YOUNG FOLKS.

painted in oils. The cup shelf is fixed at a convenient distance beneath, then the bracket narrows and a small mirror with bevelod edge and shelf in front to hold a vace terminates the narrows and a small mirror with bevelod edge and shelf in front to hold a vace terminate with the narrows and a small mirror with bevelod edge and shelf in front to hold a vace terminate the narrows and a simple for a little work table of white enumered wood. The top is composed of two flaps that open utwards and disclose a firm, square work hand with compartments for scissors, thimble, needlebook, and so on. The outside of the lag is draped with Indian slik finished off with pempors. When the flaps are closed it makes a convenient occasional table, and the top is to be tastefully painted with groups of flowers.

owers. An infinite variety of small articles are no

An infinite variety of small articles are now mounted upon a table and display themselves easily for inspection. One of the intest fancies is thus to mount a small wooden palette, which is first covered with plush. Into the front of this are screwed a few tiny brass hooks, so disposed as to be convenient for holding old miniatures, ancient seals, medals, or similar curicalities of small size.

Flower pors and large flower bowls for partor or boudoir are often draped with silk. The pot is placed upon a square or circular piece of silk, which is raised to the top of the flower pot, and there beld in place by a guthering thread, carried round, firmly drawn up and fastened off. A pretty cover is made of any colored attin, veiled with lattice vork of briers, and where they cross are set miniature roses, so that the whole cover is strewn with soft pink petals.

Tasteful Window Prapery.

Tasteful Window Drapery.

Much of the good effect of a room depends upon the tasts displayed in the choice and traping of window hangings and portiers. A handsome style of window drapery illustrated by Decorator and Fornisher is here shown.

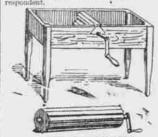


WINDOW DIAPERY IN BLUE AND GOLD.
First certain in gold silk gaine, decorated with a band of plush in Japanese bine, embroidered in gold and blue. Second curtain, one part of Japanese blue plush, the other of gold games; knots of Japanese blue satin. This arrangement, with its exquisite materials and artistic coloring, is extremely regaling. The design, however, may be copied, as to its graceful draping, with charming and equally graceful results in simpler fabrics.

A Culinary Convenience.

A Cultimary Convenience.

The operation of making what are called biscuit in the south, and "beaten biscuit," or "Maryland biscuit," in the north, is greatly facilitated by the use of one of the little biscuit beating machines—at come for the purpose. When the ready made article is not to e procured the housewife can have a substi tute made by any carpenter with the aid of design and dimension ributed to Good Housekeeping by a cor



A RESCULT BEATING MACHINE This is simply a box on legs, with two holes nilway on both sides for a cylinder to work i. The cylinder is fluted, or grooved, and he handle is detachable, to be fastened to one of the small ends of the cylinder that slips into the holes.

The box or bread trough is two feet long.

eight inches deep, and fourteen inches wide. The cylinder should be about fourteen inches

The cylinder should be about fourteen inches form and eight or uine inches in circum realists.

In Being it, you mix the dough in a tray bowl, then put it in the dough trough at A, tary the erank C with the right hand, and mid-the dough toward be grooved cylinder with the other. The dough will pass under the cylinder, or roller, D, to B; then reverse the crank, and the dough will return to A. Continne this operation until the dough is light satiny smooth to the touch, and will peel in thin flakes.

Candied Fruits

Make a thick strup with a toxcupfe water to a pound of sugar, and in this ing of trains is not only possible but practicable. Four main conductors extend the whole length of the train, and the circuit is a grranged that the dyname, the storage batteries and the lamps may be handled collectionly or engaged by as occasion remires.

Spanish Cream

Sparish Cream.

Beat the yelks of three eggs with half a cupful of powdered sugar; heat half an ounce of singless with a quart and a half of milk; let it come to a boil and stir it slowly into the yelks; allow it to boil up again and stir in the beaten whites of the eggs, pour into molds and let it cool.

Peach Pudding Peach Pudding.

Pill the pudding dish with alternate layers of crumbs, dotted with butter, and aliced and vestened peaches, having crumbs on top, our over custard made of one pint of milk, the yolks of two eggs, and two tablespooninks of sugar. Steam, and serve with any good sance.

Grape Fruit Sherbet.
Use the strained joins of the fruit, mixes with an equal quantity of stray sade from while sugar, freeze it like out r nor ice.

A hale old man, Mr. James Wilson o Allens Springs, Ill., who is over sixty years of age, says: "I have in my time tried a M. 1 Drug Department.

Facts Worth Knowing.

In all diseases of the masal mucous membrane the remedy used must be non-irritating. The medical profession has been slow to learn this. Nothing satisfactory can be accomplished with douches, smalls, powders, and the state of accomplished with douches, smills, powders, syrlinges, astringents or any similar applications, because they are all irritating, do not thoroughly reach the affected surfaces and should be abandoned as worse than failures. A multitude of persons who had for years borne all the worry and pain that calarth can inflict testify to radical and permanent cures wrought by Ety's Cream Relie.

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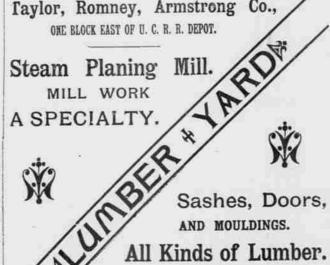
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